

CLAIM OR CLAIMS

WHAT IS CLAIMED IS:

1. A surround sound display comprising:  
a sound stage image;  
a correlation meter scale for each stereo channel of the sound stage  
image; and

10 markers related to the correlation meter scales that represent the  
correlation between the stereo channels.

2. The display as recited in claim 1 wherein the sound stage image  
comprises speaker images positioned at appropriate positions of the  
display to represent sound sources.

15 3. The display as recited in claims 1 or 2 wherein the sound stage image  
comprises a listener image positioned in the center of the display.

20 4. The display as recited in claim 1 wherein the correlation meter scale  
comprises a bent scale for each stereo channel representing correlation  
values between +1 and -1 at opposing ends of the bent scale.

5. The display as recited in claim 4 wherein the bent scale has the +1 end  
centrally located along a first side of the display, the -1 end

centrally located along a second side of the display, the second side being orthogonal to the first side, and a central portion representing a correlation value of 0 adjacent a corner between the first and second sides.

5 6. The display as recited in claim 4 wherein a second bent scale  
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A3 representing a related stereo channel has the +1 end centrally located  
10 along the first side of the display adjacent the first bent scale, the -1 end  
centrally located along a third side of the display opposite the second  
side, and a central portion representing a correlation value of 0 adjacent a  
corner between the first and third sides.

7. The display as recited in claim 1 wherein the markers comprise a  
pointer for each stereo channel, the location of the pointer along the  
correlation meter scale indicating the correlation between the stereo  
15 channels.

8. The display as recited in claim 7 wherein the markers comprise a fill  
area spanning the correlation meter scales for the stereo channels, the  
width of the fill area indicating the correlation between the stereo  
20 channels.

9. The display as recited in claim 8 wherein the thickness of the fill area  
indicates the amplitude of the stereo channels.

10. The display as recited in claim 1 wherein the correlation meter scales for the stereo channels comprise bent scales each having a +1 value adjacent the other centrally along a first side of the display, respective -1 values centrally along opposing adjacent sides orthogonal to the first side, and 0 values adjacent respective corners between the first and each adjacent side.

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10. The display as recited in claim 10 wherein the markers comprise a fill area that spans the correlation meter scales and has a width and a thickness, the width indicating the correlation between the stereo channels.

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12. The display as recited in claim 11 wherein the fill area has two contiguous portions, a first portion overlaying one of the correlation meter scales and a second portion overlaying the other one of the correlation meter scales, the thickness of the portions indicating the amplitude of the related stereo channels.

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13. The display as recited in claim 1 wherein the markers comprise a plurality of truncated wedges, at least one of the truncated wedges having a fixed width representing a central audio source and the other truncated wedges representing the stereo channels with a variable width, the variable width indicating the correlation between the stereo channels.

14. The display as recited in claim 13 wherein the truncated wedges representing the stereo channels have a first radial edge fixed at a +1 value for the stereo channels and a second radial edge variable between the +1 value and a -1 value to alter the variable width of the truncated wedges to indicate the correlation between the stereo channels.

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15. The display as recited in claim 13 wherein the truncated wedges for the stereo channels have a minimum width centered at a specified angle representing a 0 value of the correlation meter scales, and a first radial edge is fixed when the correlation is negative while a second radial edge varies to change the variable width of the truncated wedge and the second radial edge is fixed when the correlation is positive while the first radial edge varies to change the variable width of the truncated wedge.

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